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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,562	11/08/1999	ERIK J. VAN DER BURG	MVMDINC.001C	5387

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EXAMINER

DAWSON, GLENN K

ART UNIT	PAPER NUMBER
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3761

DATE MAILED: 09/05/2003

18

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/435,562

Applicant(s)

VAN DER BURG ET AL.

Examiner

Glenn K Dawson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 38-45, 51-98 and 101-128 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 51-58, 61-77 and 80-98 is/are allowed.
- 6) ☒ Claim(s) 38-45, 59, 60, 78, 79, 101-105 and 107-128 is/are rejected.
- 7) ☒ Claim(s) 106 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Continued Prosecution Application

The request filed on 07-02-03 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/435,562 is acceptable and a CPA has been established. An action on the CPA follows.

Interference

Claims 110-128 of this application has been copied from U.S. Patent No. 6,551,303, presumably for the purpose of provoking an interference.

Applicant has failed to specifically apply each limitation or element of each of the copied claim(s) to the disclosure of the application.

Applicant is given ONE MONTH or THIRTY DAYS, whichever is longer, from the mailing date of this communication to specifically apply each limitation or element of each of the copied claim(s) to the disclosure of the application. See 37 CFR 1.607(a)(5). THE PROVISIONS OF 37 CFR 1.136 DO NOT APPLY TO THE TIME SPECIFIED IN THIS ACTION.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 112,117,119,120 and 128 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to

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reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The original specification does not provide support for the method of claim 110, further including the step of extending a stent between the membrane and the prongs to engage the ostium for securing the membrane to the ostium; the method of claim 110 further including the step of injecting a blood coagulating substance into the appendage; or securing a membrane in place by the membrane lodging against the opening and including prongs adjacent an edge extending outwardly.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 38,59,60,78 and 79 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 38, there is no antecedent basis for "the hollow body structure".

In claim 59, there is no antecedent basis for "the tissue attachment structure".

In claims 78 and 79, there is no antecedent basis for "the supports".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 110-128 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Van Tassel, et al.-6551303.

Claims 101, 107 and 108 are rejected under 35 U.S.C. 102(e) as being anticipated by Huebsch, et al.-5853422.

Huebsch discloses a device having proximal and distal hubs 14, 16, struts or supports 22 having apices 24; the supports are made out of composites, stainless steel, shape memory metals or alloys, nitinol. The device may be solid, braided or woven. The entire closure device can be covered by a fabric which allows tissue ingrowth. See col. 3 line 49 –col. 4 line 9; col. 7 lines 44-55.

Claim 101 is rejected under 35 U.S.C. 102(b) as being anticipated by Mobin-Uddin-3540431.

Mobin-Uddin discloses a device having six elgiloy spokes and a canopy filter made out of a porous material. The spokes open up to an inclined position when expelled from the delivery catheter 44.

Claim 119 is rejected under 35 U.S.C. 102(b) as being anticipated by King, et al.-3874388.

King discloses a device having 6 radial spoke supports and a Dacron or Teflon mesh attached to the supports. The ends of the supports have tines 93 for attachment to tissue. The umbrella device is advanced out of a catheter 1 through an ostium, pulled

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back until the tines engage tissue on one side of an opening and the mesh then covers the opening.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 102-105 and 109 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huebsch, et al.-'422 in view of Lentz, et al.-5961545.

Huebsch discloses the invention as claimed with the exception of the e-PTFE and the pore sizes. Lentz discloses that it was known that e-PTFE has a microporous structure which allows natural tissue ingrowth and cell endothelialization-see col. 1 lines 37-47. It would have been obvious to have made the fabric covering of Huebsch out of e-PTFE instead of those specifically disclosed, which includes PTFE, as Lentz clearly discloses that e-PTFE also has the capability of allowing for cellular ingrowth which is desirable by Huebsch-note col. 7 lines 47-49.

Allowable Subject Matter

Claims 51-58,61-77 and 80-98 are allowed.

Claim 106 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 38 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Claims 39-45,59,60,78,79,would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 07-02-03 have been fully considered but are deemed moot in view of the new grounds of rejection.

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Information Disclosure Statement

The file indicates that an IDS was received on 07-02-03. However, the copy of the IDS is missing and no additional references appear to be in the file. The applicant is requested to re-submit the previous IDS with copies of any foreign references cited with the next response.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn K Dawson whose telephone number is 703-308-4304. The examiner can normally be reached on M-Th 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 703-308-1957. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.



Glenn K Dawson
Primary Examiner
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Gkd
03 September 2003